AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

The following listing provides the amended claims with deleted material crossed out and new

material underlined to show the changes made.

Claims 1-17 (Canceled)

18. (Currently Amended) A fuel for feeding spark ignition engines, in particular those

fitted in aircraft, having an F4 octane number at least equal to 130 and a reduced level of aromatic

compounds, said fuel containing substantial quantities greater than 40% by volume of a first

hydrocarbons base (B1) essentially constituted by isoparaffins comprising 6 to 9 carbon atoms,

wherein a level of isooctanes isoparaffins containing eight carbon atoms in the isoparaffinic

hydrocarbons cut (B1) is greater than 70% by mass, and a second hydrocarbons base (B2) also

constituted by isoparaffins comprising 4 or 5 carbon atoms and, optionally, by other hydrocarbons

and additives customary for this type of fuel, in a quantity and quality sufficient for the fuel to

comply with the specifications in force, wherein the fuel contains at least 5.0% by volume of a

hydrocarbons base (B3) essentially composed of cyclohexane eyeloparaffins comprising 6 to 8

earbon atoms, and in that the ratio R of the quantities by volume (B1+B2)/B3 is greater than 2.0,

wherein the level of aromatic compounds of the fuel is less than 10% by volume.

19. (Currently Amended) A fuel according to claim 18, wherein the ratio R of the

quantities by volume (B1+B2)/B3 is comprised between 2.3 and 19.0.

20. (Previously Presented) A fuel according to claim 18, wherein the ratio K of the

quantities by volume B1/B2 is greater than 2.0.

21. (Previously Presented) A fuel according to claim 19, wherein the ratio K of the

quantities by volume Bl/B2 is greater than 2.0.

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22. (Previously Presented) A fuel according to claim 20, wherein the ratio K of the quantities by volume Bl/B2 is comprised between 2.3 and 10.6.

23. (Previously Presented) A fuel according to claim 21, wherein the ratio K of the quantities by volume Bl/B2 is comprised between 2.3 and 10.6.

24. (Canceled)

25. (Canceled)

26. (Currently Amended) A fuel according to claim <u>18</u> [[24]], wherein the level of cyclohexanes in the cycloparaffinic hydrocarbons cut (B3) is greater than 80% by mass.

27. (Canceled)

28. (Canceled)

29. (Currently Amended) A fuel according to claim 18 [[28]], wherein the level in the fuel of the isoparaffinic hydrocarbons cut (B1) with eight earbon atoms is greater than 43% by volume.

30. (Canceled)

31. (Currently Amended) A fuel according to claim <u>18</u> [[28]], wherein the isoparaffinic hydrocarbons containing eight carbon atoms are <u>isooctane</u> isooctanes.

32. (Currently Amended) A fuel according to claim 29, wherein the isoparaffinic hydrocarbons containing eight carbon atoms are <u>isooctane</u> isooctanes.

33. (Canceled)

34. (Currently Amended) A fuel according to claim 18 [[33]], wherein the level of isooctanes in the isoparaffinic hydrocarbons cut (B1) with eight carbon atoms is greater than 75% by mass.

35. (Previously Presented) A fuel according to claim 18, wherein the second isoparaffinic hydrocarbons cut (B2) is essentially constituted by isoparaffins with five carbon atoms.

- 36 (Previously Presented) A fuel according to claim 19, wherein the second isoparaffinic hydrocarbons cut (B2) is essentially constituted by isoparaffins with five carbon atoms.
- 37. (Previously Presented) A fuel according to claim 20, wherein the second isoparaffinic hydrocarbons cut (B2) is essentially constituted by isoparaffins with five carbon atoms.
- 38. (Currently Amended) A fuel according to claim 35, wherein the isoparaffinic hydrocarbons containing five carbon atoms are <u>isopentane</u> isopentanes.
- 39. (Currently Amended) A fuel according to claim 38, wherein the level of <u>isopentane</u> isopentanes in the isoparaffinic hydrocarbons cut (B2) with five carbon atoms is greater than 85% by mass.
- 40. (Currently Amended) A fuel according to claim 39, wherein the level of <u>isopentane</u> isopentanes in the isoparaffinic hydrocarbons cut (B2) with five carbon atoms is greater than 90% by mass.
- 41. (Currently Amended) A fuel according to claim <u>18</u> [[35]], wherein the isoparaffinic hydrocarbons cut <u>(B2)</u> containing 5 carbon atoms is replaced by a cut <u>is essentially</u> constituted by <u>a</u> mixture of n-butane and isobutane <u>hydrocarbons containing 4 carbon atoms</u>.
  - 42. (Canceled)
- 43. (Previously Presented) A fuel according to claim 18, wherein its benzene content is less than 0.2% by volume.
- 44. (Previously Presented) A fuel according to claim 43, wherein its benzene content is less than 0.1% by volume.
- 45. (Previously Presented) A fuel according to claim 42, wherein its benzene content is less than 0.2% by volume.
- 46. (Previously Presented) A fuel according to claim 45, wherein its benzene content is less than 0.1 % by volume.

47. (Currently Amended) A method comprising providing Use of the fuel according to

claim 18, to run ignition engines on aircraft feed, alone or in mixture, spark ignition engines of

aircraft.

48. (Currently Amended) A method comprising providing Use of the fuel according to

claim 18, to run feed, alone or in mixture, spark ignition engines of competition or similar vehicles.

49. (Currently Amended) A method comprising providing Use of the fuel according to

claim 18 to run feed, alone or in mixture, a fuel treatment unit, such as a reformer, coupled to a fuel

cell.

50. (Previously Presented) A fuel according to claim 18, wherein said fuel contains

at least 10.0% by volume, of said hydrocarbons base (B3) essentially composed of cycloparaffins

comprising 6 to 8 carbon atoms.

51. (Previously Presented) A fuel according to claim 24, wherein the level of

cyclohexanes in the cycloparaffinic hydrocarbons cut (B3) is greater than 90% by mass.

52. (Previously Presented) A fuel according to claim 18, wherein the fuel's level of

aromatic compounds is less than 5%: by volume.

53. (New) A fuel according to claim 18 further comprising other hydrocarbons and

additives customary for this type of fuel.

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